

DTTCaster

Terrestrial Demodulator



The ENENSYS DTTCaster is the solution for network broadcast operators looking to reuse the on-air DTT signal in order to feed additional transmitters sites.

Professional DVB-T/T2/ISDB-T/Tb demodulator

The DTTCaster is a multi-standard DTT professional demodulator that supports DVB-T, DVB-T2 and ISDB-T/Tb standards. At the same time, it can receive DVB-T, DVB-T2 and ISDB-T/Tb signals and output the MPEG-2 TS over ASI and IP. In DVB-T2 environment, it can generate up to two deterministic T2-MI streams in SPLP or MPLP to enable content rebroadcasting over SFN.

Reduce OPEX costs

The DTTCaster aims at rebroadcasting a DTT signal in MFN or SFN from a parent transmitter without the need of an additional distribution network to reach the child retransmitters. Low cost solution compared to satellite reception. The solution can be used to provide a straightforward backup of another distribution network.

Low CAPEX

The DTTCaster offers a very cost-effective solution by managing 4x DTT frequencies independently and supporting various standards. It offer a low cost solution compared to satellite reception that requires much more expensive materials in C-band environment.

DVB-T2 unique SFN rebroadcasting

The DTTCaster can generate up to two deterministic T2-MI streams from a T2 parent transmitter to rebroadcast a DVB-T2 signal over SFN. It supports single PLP and multiple PLP generation.

High Density solution

The DTTCaster can demodulate up to 4x DTT frequencies. In the same ENENSYS HDc chassis, it is possible to operate 6x DTTCaster in 1U to offer the demodulation of up to 24x different RF signals.

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Applications

- DVB-T signal rebroadcasting
- DVB-T2 signal rebroadcasting in SFN
- ISDB-T/Tb signal rebroadcasting with TbEdge
- Build-up a backup DTT distribution network
- Cable networks rebroadcasting

Other benefits

- Demodulate up to 4x DVB-T/T2/ISDB-T/Tb signals independently
- Support T2-base and T2-lite RF signals
- Generate up to two deterministic T2-MI for DVB-T2/SFN rebroadcasting
- Rebroadcast from a T2-MI input over ASI or IP
- ISDB-T/tb rebroadcasting in SFN or MFN when associated with the TbEdge
- PID filtering to update incoming MPEG-2 TS
- Output MPEG-2 TS over ASI and IP

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Technical specifications

INPUTS

Control

1x Gigabit Ethernet (RJ45)
for GUI/SNMP

T2-MI

T2-MI input Over ASI (BNC) or IP

DVB-T - DVB-T2 - ISDB-T/Tb

1x RF input (F-type female - 50 Ω)

OUTPUTS

MPEG-2 TS

4x ASI (BNC) outputs
2x Gigabit Ethernet (RJ45) for
RTP/IP output streams over the chassis data ports

FEATURING

Multi-standard DTT demodulator

DVB-T, DVB-T2, ISDB-T/Tb
Up to 4x frequencies at a time
RF Band UHF band IV-V and VHF Band III
RF Sensitivity -80 to -5 dBm

DVB-T2 demodulation

Up to 2x T2-MI outputs over MPEG-2 TS sent over ASI or IP
Single PLP and Multiple PLP support
Up to 4x PLP output at a time
T2-base and T2-lite support
V1.1.1, V1.2.1, V1.3.1 support
1.7, 6, 7, 8 MHz bandwidth support

SFN/T2 rebroadcasting

Deterministic T2-MI generation for
DVB-T2/SFN rebroadcasting (Option)
Single and Multiple PLP support

IP management

ProMPEG CoP#3/SMPTE 2022-1
2x Gigabit ports from the chassis

DVB-T demodulation

Output MPEG-2 TS over ASI or IP
6, 7, 8 MHz bandwidth
2K and 8K FFT
QPSK, 16 QAM, 64 QAM constellation
1/2, 2/3, 3/4, 5/6, 7/8 code rate

ISDB-T/Tb demodulation

Output TS over ASI or IP Multi-Layer support
6, 8 MHz bandwidth

TS processing

PID filtering to remove services or
components

Monitoring and Supervision

Easy-to-use web GUI
Full SNMP v2 support

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PHYSICAL

HDc

Width

443,7 mm / 17.46 in.

Format

1 RU, width 19"

Power supply

100-240V 50/60Hz or 48V DC

Data IP Ports

2x Gigabit Ethernet (RJ45) data port

Operating temperature

0 to 50°C / 0 to 122°F with 3 modules - 0 to 45°C / 0 to 113°F with 6 modules

Height

43 mm / 1.69 in.

Depth

322,8 mm / 12,70 in.

Front Panel

LCD Display and controls

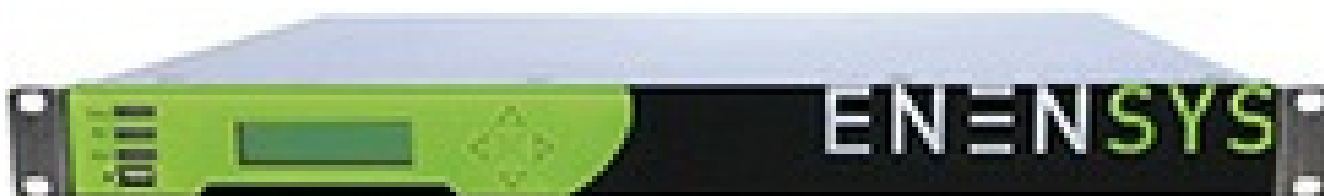
Control IP Port

1x Gigabit Ethernet (RJ45) control port

Power consumption

20W/module

Front



Ordering codes

HDc-220VRedundant

High Density chassis with 2x 220V AC Power supplies

HDm-DTTCaster

DVB-T/T2/ISDB-T/Tb demodulator

Ordering options

DTTCaster-T2MI

Deterministic T2-MI output

HDc-48VRedundant

High Density chassis with 2x 48V AC Power supplies

DTTCaster-DualT2MI

Enable a second T2-MI output generation